Hospitalizations Among Members of the Active Component, U.S. Armed Forces, 2011

his report documents the frequencies, rates, trends, and distributions of hospitalizations of active component members of the U.S. Armed Forces during calendar year 2011. Summaries are based on standardized records of hospitalizations at U.S. military and non-military (reimbursed care) medical facilities worldwide. For this report, primary (first-listed) discharge diagnoses are considered indicative of the primary reasons for hospitalizations; summaries are based on the first three digits of ICD-9-CM codes used to report primary discharge diagnoses. Hospitalizations not routinely documented with standardized, automated records (e.g., during deployments, field training exercises, shipboard) are not centrally available for health surveillance purposes and thus are not included in this report.

Frequencies, rates, and trends:

In 2011 there were 99,412 reports of hospitalizations of active component

members of the U.S. Army, Navy, Air Force, Marine Corps, and Coast Guard; 27 percent of the hospitalizations were in non-military facilities (Table 1, Figure 1). The hospitalization rate (all causes) was 68.2 per 1,000 service members per year. The annual hospitalization rate (all causes) was higher during 2011 compared to the previous years (overall hospitalization rate minimum: 54.9 per 1,000 person-years [p-yrs], 2006; maximum: 68.2 per 1,000 p-yrs, 2011) (Figure 1).

Hospitalizations, by illness and injury categories:

As in prior years, in 2011 three diagnostic categories accounted for more than one-half (54.5%) of all hospitalizations of active component members: mental disorders (21.9%), pregnancy and deliveryrelated conditions (19.8%), and injuries and poisonings (12.8%) (Table 1). In contrast to 2007 and 2009, in 2011 there were more hospitalizations for mental disorders than for any other major category of illnesses or injuries (per the ICD-9-CM).

From 2007 to 2011, numbers of hospitalizations increased in 15 and decreased in two major categories of illnesses and injuries. The largest percentage increases between 2007 and 2011 were for "other" or V-coded hospitalizations (primarily orthopedic aftercare and rehabilitation following a previous illness or injury) (hosp diff, 2007-2011: +1,592; +66.3%) and for mental disorders (hosp diff, 2007-2011: +7,623; +54.0%). The only percentage decreases during the same period were for the skin and subcutaneous tissue (hosp diff, 2007-2011: -171; -7.3%) and injury and poisoning (hosp diff, 2007-2011: -354; -2.7%) categories (Table 1).

Hospitalizations, by gender:

In 2011, the hospitalization rate (all causes) was more than two times higher among females than males (hospitalization rate, overall: females: 162.0 per 1,000 p-yrs; males: 52.3 per 1,000 p-yrs); however, pregnancy and delivery accounted for 57.8

TABLE 1. Hospitalizations, ICD-9-CM major diagnostic categories, active component, U.S. Armed Forces, 2007, 2009, and 2011

	2007				2009		2011		
Major diagnostic category (ICD-9-CM)	No.	Rate ^a	Rank	No.	Rate ^a	Rank	No.	Rate ^a	Rank
Mental disorders (290-319)	14,112	10.1	(2)	15,339	10.4	(2)	21,735	14.9	(1)
Pregnancy and delivery (630-679, relevant V-codes) ^b	18,326	13.1 <i>(91.4)</i>	(1)	16,009	10.9 <i>(76.4)</i>	(1)	19,722	13.5 (93.6)	(2)
Injury and poisoning (800-999)	13,095	9.4	(3)	10,063	6.8	(3)	12,741	8.7	(3)
Digestive system (520-579)	7,520	5.4	(5)	7,001	4.8	(4)	9,049	6.2	(4)
Musculoskeletal system/connective tissue (710-739)	7,643	5.5	(4)	6,721	4.6	(5)	7,885	5.4	(5)
Signs, symptoms, ill-defined conditions (780-799)	4,410	3.1	(6)	4,033	2.7	(6)	4,916	3.4	(6)
Other (V01-V82, except pregnancy-related)	2,402	1.7	(10)	2,387	1.6	(10)	3,994	2.7	(7)
Respiratory system (460-519)	2,966	2.1	(7)	3,268	2.2	(7)	3,090	2.1	(8)
Circulatory system (390-459)	2,645	1.9	(9)	2,483	1.7	(8)	3,027	2.1	(9)
Genitourinary system (580-629)	2,831	2.0	(8)	2,483	1.7	(9)	3,002	2.1	(10)
Nervous system (320-389)	1,782	1.3	(13)	1,755	1.2	(13)	2,429	1.7	(11)
Neoplasms (140-239)	2,024	1.4	(12)	1,821	1.2	(12)	2,238	1.5	(12)
Skin and subcutaneous tissue (680-709)	2,353	1.7	(11)	1,984	1.4	(11)	2,182	1.5	(13)
Infectious and parasitic diseases (001-139)	1,342	1.0	(14)	1,119	0.8	(14)	1,546	1.1	(14)
Endocrine, nutrition, immunity (240-279)	830	0.6	(15)	804	0.5	(15)	1,005	0.7	(15)
Congenital anomalies (740-759)	337	0.2	(16)	309	0.2	(17)	469	0.3	(16)
Hematologic disorders (280-289)	318	0.2	(17)	326	0.2	(16)	382	0.3	(17)
Total	84,936	60.7		77,905	53.0		99,412	68.2	

^aRates are expressed as hospitalizations per 1,000 p-yrs

^bRate of pregnancy and delivery-related hospitalizations among females only (in parentheses)

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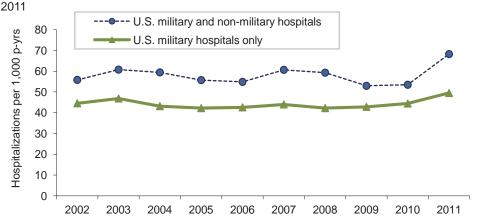
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FIGURE 1. Rate of hospitalization by year, active component, U.S. Armed Forces, 2002-



percent of all hospitalizations of females. The rate of hospitalizations for conditions not related to pregnancy and delivery was almost one-third (30.6%) higher among females (68.4 per 1,000 per year) than males (data not shown).

Hospitalization rates were higher among males than females for injuries and poisonings (male:female [m:f], rate ratio [RR]: 1.45; rate difference [RD]: 2.8 per 1,000 p-yrs), musculoskeletal system/connective tissue disorders (m:f, RR: 1.13; RD: 0.6 per 1,000 p-yrs), and skin and subcutaneous tissue disorders (m:f, RR: 1.64; RD: 0.6 per 1,000 p-yrs). Hospitalization rates were similar among males and females for circulatory disorders (m:f, RR: 1.09; RD: 0.2 per 1,000 p-yrs) and respiratory diseases (m:f, RR: 1.03; RD: 0.1 per 1,000 p-yrs). Hospitalization rates were higher among females than males for the other 12 major disease-specific categories. Of these 12 categories, the largest absolute differences in hospitalization rates between females and males were for genitourinary disorders (RD: 6.2 per 1,000 p-yrs), mental disorders (RD: 4.3 per 1,000 p-yrs), and neoplasms (RD: 3.4 per 1,000 p-yrs) (data not shown).

Relationships between age and hospitalization rates significantly varied across illness- and injury-specific categories (Figure 2). For example, among both males and females, hospitalization rates sharply increased with age for neoplasms, circulatory, genitourinary, and musculoskeletal system/connective tissue disorders; rates decreased with age for mental disorders; and rates were generally stable across age groups for infectious and parasitic diseases,

digestive disorders, and injuries and poisonings (Figure 2).

Most frequent diagnoses:

In 2011, seven diagnoses (at the 3-digit level of the ICD-9-CM) each accounted for more than 1,400 hospitalizations among males: adjustment reactions (n=5,503), episodic mood disorders (n=4,142), intervertebral disc disorders (n=2,305), alcohol dependence syndrome (2,150), acute appendicitis (n=2,096), symptoms involving the respiratory system (n=1,495), and other cellulitis and abscess (n=1,442). These seven diagnoses accounted for 30 percent of all hospitalizations of males in 2011 (**Table 2**).

In 2011, pregnancy and delivery-related conditions accounted for 58 percent of all hospitalizations of females (Table 3). Other than pregnancy and delivery-related diagnoses, leading causes of hospitalizations of females were adjustment reactions (n=1,359), episodic mood disorders (n=1,158), uterine leiomyoma (n=541), depressive disorder (n=338), acute appendicitis (n=324), and intervertebral disc disorders (n=295). These six diagnoses accounted for 28 percent of all hospitalizations (not related to pregnancy/delivery) of females (Table 3).

Mental health conditions:

In 2011 mental disorders accounted for more hospitalizations of U.S. service members than any other major category of diagnoses (**Table 1**). Adjustment reactions (including post-traumatic stress disorder) and episodic mood disorders were associated with more hospitalizations among active component members than any other specific condition (at the 3-digit level); together, these two conditions accounted for 15 percent and 17 percent of all hospitalizations of males and females (excluding pregnancy and delivery-related), respectively (Tables 2,3).

Injuries and poisonings:

As in the past, in 2011, injuries and poisonings were a leading cause of hospitalizations of U.S. military members (Table 1). Of all injuries and poisonings that resulted in hospitalizations in U.S. military medical facilities (n=9,286), approximately one in seven (n=1,367; 14.7%) were reported as "intentionally inflicted" (e.g., enemy weapons; suicide gestures/attempts; fights, assaults, legal interventions) of which the majority (n=851; 62.3%) were reported as "battle casualties" (Table 4). Of all "unintentional" injuries and poisonings that resulted in hospitalizations in U.S. military facilities (n=7,885), approximately two-thirds (63.2%) were considered caused by falls and miscellaneous (n=2,011), complications of medical or surgical care (n=1,626), or guns and explosives (n=1,350) (Table 4).

Among males, injury and poisoning-related hospitalizations were most often related to complications of medical and surgical procedures and fractures of face, ankle, or leg bones (Table 2). Among females, injury and poisoning-related hospitalizations were most often related to complications of medical and surgical procedures, poisonings (analgesics, antipyretics, antirheumatics, psychotropic agents), and ankle fractures (Table 3).

Durations of hospitalizations:

Since 2002, the median durations of hospitalizations (all causes) have been stable (3 days), but the durations of the longest hospitalizations have increased (Figure 3). In 2011 as in previous years, medians and ranges of durations of hospitalizations significantly varied across major diagnostic categories. For example, median lengths of hospitalizations varied from two days (e.g., musculoskeletal system/connective tissue

FIGURE 2. Rate (per 1,000 p-yrs) of hospitalization by major diagnostic categories, by age and gender, active component, U.S. Armed Forces, 2011

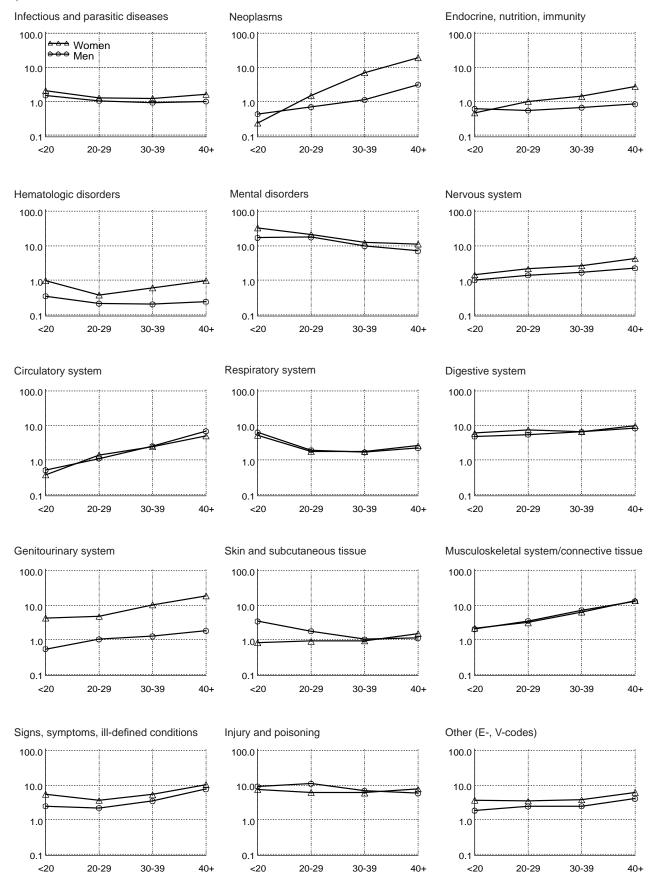


TABLE 2. Most frequent diagnoses during hospitalization by major diagnostic category, males, active component, U.S. Armed Forces, 2011

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Other diseases of blood and blood-forming organs Purpura and other hemorrhagic conditions 38 14.0 Spondylosis and allied disorders Aplastic anemia 24 8.8 Other and unspecified anemias 24 8.8 Other and unspecified disorders of back Mental disorders (290 - 319) Adjustment reaction 5,503 30.9 Other congenital musculoskeletal anomalies Episodic mood disorders Alcohol dependence syndrome 2,150 12.1 Other congenital anomalies of digestive system Other congenital anomalies of heart Nondependent abuse of drugs Nervous system (320 - 389) Pain, not elsewhere classified 354 18.4 Symptoms involving respiratory system Other conditions of brain Epilepsy 31.4 Other congenital anomalies of circulatory system Other congenital anomalies of circulatory system Signs, symptoms, and ill-defined conditions (780 - 799) 3,8 Symptoms involving respiratory system 1,4 Other symptoms involving abdomen and pelvis Symptoms involving digestive system Other conditions of brain Circulatory system (390 - 459) Circulatory system (390 - 459) Circulatory system (390 - 459) Acute pulmonary heart disease 314 12.0 Fracture of ankle Complications of procedures not elsewhere classified Acute myocardial infarction 185 7.1 Complications of procedures not elsewhere classified Other conditions of brain Circulatory system (390 - 459) Circulatory system (390 - 459) Circulatory system (390 - 459) Acute pulmonary heart disease 314 12.0 Fracture of ankle Complications of procedures not elsewhere classified Acute myocardial infarction 185 7.1 Complications peculiar to certain specified procedures Acute pulmonary heart disease 174 6.6 Fracture of face bones Other congenism and thrombosis 149 5.7 Fracture of face bones Other conditions not found Complications of procedures not elsewhere classified Acute myocardial infarction 185 7.1 Complications of procedures not elsewhere classified Acute myocardial infarction 185 7.1 Complications of procedures not elsewhere classified Acute myocardial infarction 185 7.1 Complications of procedures not elsewhere classified Acute	Hematologic disorders (280 - 289)	272		Musculoskeletal system/connective tissue (710 - 739)	6,8
Purpura and other hemorrhagic conditions 38 14.0 Spondylosis and allied disorders 4 8.8 Osteoarthrosis and allied disorders 4 8.8 Other and unspecified anemias 24 8.8 Other and unspecified disorders 6 4 9 9 9 9 9 9 9 9 9 9 9 11, 4 Complications of bronce is a specified disorders 6 9 9 9 9 9 9 9 9 11, 4 Complications peculiar of the rorms of chronic ischemic heart disease 7 9 9 6.8 Consenting and allied disorders 8 9 9 9 9 9 1 1, 4 Complications peculiar to certain specified procedures 9 9 9 1 1, 6 6 Fracture of lace bronce wholes muspecified procedures aftercare 1, 6 9 9 9 9 1 1, 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Diseases of white blood cells	94	34.6	Intervertebral disc disorders	2,3
Aplastic anemia 24 8.8 Osteoarthrosis and allied disorders 4 8.8 Other and unspecified anemias 24 8.8 Other and unspecified disorders of back 4 8 Other congenital anomalies (740 - 759) 3 Other congenital moralies of back 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Other diseases of blood and blood-forming org	jans 52	19.1	Disorders of muscle ligament and fascia	5
Other and unspecified anemias 24 8.8 Other and unspecified disorders of back 4 Mental disorders (290 - 319) 17,819 Congenital anomalies (740 - 759) 3 Adjustment reaction 5,503 30.9 Other congenital musculoskeletal anomalies Episodic mood disorders 4,142 23.2 Anomalies of bulbus cordis, cardiac septal closure Alcohol dependence syndrome 2,150 12.1 Other congenital anomalies of digestive system Depressive disorder not elsewhere classified 1,209 6.8 Other congenital anomalies of circulatory system Nondependent abuse of drugs 1,037 5.8 Other congenital anomalies of circulatory system Nervous system (320 - 389) 1,924 Signs, symptoms involving all anomalies of circulatory system Other congenital anomalies of circulatory system Pain, not elsewhere classified 1,924 Signs, symptoms, and ill-defined conditions (780 - 799) 3,8 Organic sleep disorders 289 15.0 General symptoms 1,4 Organic sleep disorders 289 15.0 General symptoms involving abdomen and pelvis 2 Epilepsy 219 11.4 Other conglitial monamalies of digestive system 3	Purpura and other hemorrhagic conditions	38	14.0	Spondylosis and allied disorders	4
Mental disorders (290 - 319) 17,819 Congenital anomalies (740 - 759) 3 Adjustment reaction 5,503 30.9 Other congenital musculoskeletal anomalies Episodic mood disorders 4,142 23.2 Anomalies of bulbus cordis, cardiac septal closure Alcohol dependence syndrome 2,150 12.1 Other congenital anomalies of digestive system Depressive disorder not elsewhere classified 1,209 6.8 Other congenital anomalies of circulatory system Nondependent abuse of drugs 1,037 5.8 Other congenital anomalies of circulatory system Nervous system (320 - 389) 1,924 Signs, symptoms, and ill-defined conditions (780 - 799) 3,6 Pain, not elsewhere classified 354 18.4 Symptoms involving respiratory system 1,6 Organic sleep disorders 289 15.0 General symptoms 1,2 Epilepsy 219 11.4 Other symptoms involving abdomen and pelvis 5 Migraine 161 8.4 Symptoms involving digestive system Circulatory system (390 - 459) 2,620 Injury and poisoning (800 - 999) 11,6 Circulatory system (390 - 459) 2,620 Injury and poisoning (800	Aplastic anemia	24	8.8	Osteoarthrosis and allied disorders	4
Adjustment reaction 5,503 30.9 Other congenital musculoskeletal anomalies Episodic mood disorders 4,142 23.2 Anomalies of bulbus cordis, cardiac septal closure Alcohol dependence syndrome 2,150 12.1 Other congenital anomalies of digestive system Depressive disorder not elsewhere classified 1,209 6.8 Other congenital anomalies of heart Nondependent abuse of drugs 1,037 5.8 Other congenital anomalies of circulatory system Nervous system (320 - 389) 1,924 Signs, symptoms, and ill-defined conditions (780 - 799) 3,8 Pain, not elsewhere classified 354 18.4 Symptoms involving respiratory system 1,4 Organic sleep disorders 289 15.0 General symptoms 1,2 Epilepsy 219 11.4 Other symptoms involving abdomen and pelvis 5,8 Migraine 161 8.4 Symptoms involving head and neck 5,9 Other conditions of brain 93 4.8 Symptoms involving digestive system 5,9 Circulatory system (390 - 459) 2,620 Injury and poisoning (800 - 999) 11,4 Acute pulmonary heart disease 314 12.0 Fracture of ankle 5,7 Acute pulmonary heart disease 174 6.6 Fracture of ankle 5,7 Complications peculiar to certain specified procedures 5,7 Complications peculiar to certain specified procedures 5,7 Other (V01-V82, except pregnancy-related) 3,7 Pneumonia organism unspecified 857 32.3 Encounter for other and unspecified procedures, aftercare 1,6 Other (V01-V82, except pregnancy-related) 5,7 Other (V01-V82, except pregnancy-related) 6,7 Other (V01-V82, except pregnancy-related) 7,6 Other (V01-V82, except pregnancy-related) 7,7 Other (V01-V82, except pregnancy-related) 7,7 Other (V01-V82,	Other and unspecified anemias	24	8.8	Other and unspecified disorders of back	4
Episodic mood disorders 4,142 23.2 Anomalies of bulbus cordis, cardiac septal closure Alcohol dependence syndrome 2,150 12.1 Other congenital anomalies of digestive system Depressive disorder not elsewhere classified 1,209 6.8 Other congenital anomalies of heart Nondependent abuse of drugs 1,037 5.8 Other congenital anomalies of circulatory system Nervous system (320 - 389) 1,924 Signs, symptoms, and ill-defined conditions (780 - 799) 3,8 Pain, not elsewhere classified 354 18.4 Symptoms involving respiratory system 1,4 Organic sleep disorders 289 15.0 General symptoms 1,2 Epilepsy 219 11.4 Other symptoms involving abdomen and pelvis 5,8 Migraine 161 8.4 Symptoms involving dead and neck 5,9 Other conditions of brain 93 8.8 Symptoms involving digestive system 1,4 Circulatory system (390 - 459) 2,620 Injury and poisoning (800 - 999) 11,4 Acute pulmonary heart disease 314 12.0 Fracture of ankle 5,7 Acute pulmonary heart disease 314 12.0 Fracture of ankle 6,7 Acute myocardial infarction 185 7.1 Complications peculiar to certain specified procedures 5,7 Other forms of chronic ischemic heart disease 174 6.6 Fracture of face bones 4,7 Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula 4,7 Respiratory system (460 - 519) 2,655 Other (V01-V82, except pregnancy-related) 3,7 Pneumonia organism unspecified 857 32.3 Encounter for other and unspecified procedures, aftercare 1,6 Observation, evaluation for suspected conditions not found 6,8 Convalescence and palliative care	Mental disorders (290 - 319)	17,819		Congenital anomalies (740 - 759)	3
Alcohol dependence syndrome 2,150 12.1 Other congenital anomalies of digestive system Depressive disorder not elsewhere classified 1,209 6.8 Other congenital anomalies of heart Nondependent abuse of drugs 1,037 5.8 Other congenital anomalies of circulatory system Nervous system (320 - 389) 1,924 Signs, symptoms, and ill-defined conditions (780 - 799) 3,6 Pain, not elsewhere classified 354 18.4 Symptoms involving respiratory system 1,4 Organic sleep disorders 289 15.0 General symptoms 1,2 Epilepsy 219 11.4 Other symptoms involving abdomen and pelvis 5 Migraine 161 8.4 Symptoms involving head and neck 5 Other conditions of brain 93 4.8 Symptoms involving digestive system 5 Circulatory system (390 - 459) 2,620 Injury and poisoning (800 - 999) 11,4 Cardiac dysrhythmias 558 21.3 Other complications of procedures not elsewhere classified 5 Acute pulmonary heart disease 314 12.0 Fracture of ankle 5 Cutter forms of chronic ischemic heart disease 174 6.6 Fracture of face bones 5 Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula 4 Respiratory system (460 - 519) 2,655 Other (V01-V82, except pregnancy-related) 3,6 Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found 5 Deviated nasal septum 169 6.4 Convalescence and palliative care 4 Other congenital anomalies of circulatory system Other congenital anomalies of circulatory system 3,6 Other congenital anomalies of circulatory system 3,6 Other congenital anomalies of circulatory system 3,6 Other symptoms, and ill-defined conditions (780 - 799) 3,6 Signs, symptoms, and ill-defined conditions (780 - 799) 3,6 Separatory system (320 - 389) 1,4 Other congenital anomalies of circulatory system 1,4 Other symptoms involving abdomen and pelvis 5 Symptoms involving abdomen and pelvis 5 Symptoms involving abdomen and pelvis	Adjustment reaction	5,503	30.9	Other congenital musculoskeletal anomalies	
Depressive disorder not elsewhere classified Nondependent abuse of drugs 1,037 5.8 Nervous system (320 - 389) Pain, not elsewhere classified Organic sleep disorders Epilepsy 219 11.4 Other conditions of brain Other conditions of brain Circulatory system (390 - 459) Cardiac dysrhythmias Acute pulmonary heart disease Acute myocardial infarction Other of chronic ischemic heart disease Other venous embolism and thrombosis 149 5.7 Peneumonia organism unspecified 857 32.3 Other congenital anomalies of heart Other congenital anomalies of circulatory system Other congenital anomalies of heart Other congenital anomalies of heart Other congenital anomalies of heart Other congenital anomalies of circulatory system Other congenital anomalies of circulatory system Signs, symptoms, and ill-defined conditions (780 - 799) 3,8 Symptoms involving respiratory system 1,4 Other symptoms involving abdomen and pelvis Symptoms involving digestive system Injury and poisoning (800 - 999) Injury and poisoning (800 - 999) 11,4 Complications of procedures not elsewhere classified Symptoms involving digestive system Injury and poisoning (800 - 999) 11,4 Complications of procedures not elsewhere classified Symptoms involving abdomen and pelvis Symptoms involving abdomen and	Episodic mood disorders	4,142	23.2	Anomalies of bulbus cordis, cardiac septal closure	
Nondependent abuse of drugs 1,037 5.8 Nervous system (320 - 389) 1,924 Pain, not elsewhere classified 354 18.4 Organic sleep disorders 289 15.0 General symptoms General symptoms involving abdomen and pelvis Migraine 161 8.4 Symptoms involving digestive system 1,2 Other conditions of brain 2,620 Circulatory system (390 - 459) Cardiac dysrhythmias Acute pulmonary heart disease 314 12.0 Acute myocardial infarction 314 12.0 Cher symptoms 1,2 Other complications of procedures not elsewhere classified 4 Acute myocardial infarction 3,7 Cher venous embolism and thrombosis 4,9 Cher venous embolism and thrombosis 4,9 Cher venous embolism and thrombosis 4,9 Cher venous embolism and thrombosis 4,0 Cher venous e	Alcohol dependence syndrome	2,150	12.1	Other congenital anomalies of digestive system	
Nervous system (320 - 389)1,924Signs, symptoms, and ill-defined conditions (780 - 799)3.9Pain, not elsewhere classified35418.4Symptoms involving respiratory system1,2Organic sleep disorders28915.0General symptoms1,2Epilepsy21911.4Other symptoms involving abdomen and pelvis5Migraine1618.4Symptoms involving head and neck6Other conditions of brain934.8Symptoms involving digestive system7Circulatory system (390 - 459)2,620Injury and poisoning (800 - 999)11,4Cardiac dysrhythmias55821.3Other complications of procedures not elsewhere classified5Acute pulmonary heart disease31412.0Fracture of ankle5Acute myocardial infarction1857.1Complications peculiar to certain specified procedures5Other forms of chronic ischemic heart disease1746.6Fracture of face bones4Other venous embolism and thrombosis1495.7Fracture of face bones4Other (V01-V82, except pregnancy-related)3,7Respiratory system (460 - 519)2,655Other (V01-V82, except pregnancy-related)3,7Pneumonia organism unspecified85732.3Encounter for other and unspecified procedures, aftercare1,6Pneumothorax2027.6Observation, evaluation for suspected conditions not found5Deviated nasal septum1696.4Convalescence and palliative care<	Depressive disorder not elsewhere classified	1,209	6.8	Other congenital anomalies of heart	
Pain, not elsewhere classified 354 18.4 Symptoms involving respiratory system 1,2 General symptoms 1,2 Gene	Nondependent abuse of drugs	1,037	5.8	Other congenital anomalies of circulatory system	
Organic sleep disorders Epilepsy 219 11.4 Other symptoms involving abdomen and pelvis Symptoms involving head and neck Other conditions of brain 93 4.8 Symptoms involving digestive system Circulatory system (390 - 459) Cardiac dysrhythmias 558 21.3 Other complications of procedures not elsewhere classified Acute pulmonary heart disease 314 12.0 Acute myocardial infarction 185 7.1 Complications peculiar to certain specified procedures Other venous embolism and thrombosis 149 5.7 Fracture of face bones Other (V01-V82, except pregnancy-related) 7.1 Other (V01-V82, except pregnancy-related) Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found Encounter for other and unspecified procedures, aftercare Acute pulmonary heart disease Other (V01-V82, except pregnancy-related) Symptoms involving abdomen and pelvis Symptoms involving head and neck Symptoms involving	Nervous system (320 - 389)	1,924		Signs, symptoms, and ill-defined conditions (780 - 799)	3,9
Epilepsy 219 11.4 Other symptoms involving abdomen and pelvis 8 Symptoms involving abdomen and pelvis 8 Symptoms involving head and neck 9 Symptoms involving head and neck 9 Symptoms involving head and neck 9 Symptoms involving digestive system 9 Symptoms involving abdomen and pelvis 8 Symptoms involving head and neck 9 Symptoms involving digestive system 9 Symptoms involving abdomen and pelvis 8 Symptoms involving head and neck 9 Symptoms involving head and neck 9 Symptoms involving abdomen and pelvis 8 Symptoms involving head and neck 9 Symptoms involving abdomen and pelvis 8 Symptoms involving head and neck 9 Symptoms involving head and neck 14.	Pain, not elsewhere classified	354	18.4	Symptoms involving respiratory system	1,4
Migraine 161 8.4 Symptoms involving head and neck 27 Symptoms involving head and neck 38 Symptoms involving digestive system 39 4.8 Symptoms involving digestive system 39 4.8 Symptoms involving digestive system 39 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Organic sleep disorders	289	15.0	General symptoms	1,2
Other conditions of brain 93 4.8 Symptoms involving digestive system Circulatory system (390 - 459) 2,620 Injury and poisoning (800 - 999) 11,4 Cardiac dysrhythmias 558 21.3 Other complications of procedures not elsewhere classified Acute pulmonary heart disease 314 12.0 Fracture of ankle Acute myocardial infarction 185 7.1 Complications peculiar to certain specified procedures Other forms of chronic ischemic heart disease 174 6.6 Fracture of face bones Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula Respiratory system (460 - 519) 2,655 Other (V01-V82, except pregnancy-related) Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found Encounter for other and palliative care	Epilepsy	219	11.4	Other symptoms involving abdomen and pelvis	5
Circulatory system (390 - 459) Cardiac dysrhythmias 558 21.3 Other complications of procedures not elsewhere classified Acute pulmonary heart disease 314 12.0 Fracture of ankle Complications peculiar to certain specified procedures Other forms of chronic ischemic heart disease 174 6.6 Fracture of face bones Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula Respiratory system (460 - 519) Pneumonia organism unspecified 857 32.3 Encounter for other and unspecified procedures, aftercare 1,0 Pneumothorax Deviated nasal septum Injury and poisoning (800 - 999) 11,4 Complications of procedures not elsewhere classified Fracture of ankle Complications peculiar to certain specified procedures Fracture of face bones Other (V01-V82, except pregnancy-related) 3,7 Cher (V01-V82, except pregnancy-related) 3,7 Convalescence and palliative care	Migraine	161	8.4	Symptoms involving head and neck	1
Cardiac dysrhythmias 558 21.3 Other complications of procedures not elsewhere classified 8 Acute pulmonary heart disease 314 12.0 Fracture of ankle 8 Acute myocardial infarction 185 7.1 Complications peculiar to certain specified procedures 6 Other forms of chronic ischemic heart disease 174 6.6 Fracture of face bones 6 Acute myocardial infarction 185 7.1 Complications peculiar to certain specified procedures 6 Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula 6 Acute myocardial infarction 185 7.1 Complications of procedures not elsewhere classified 8 Scrutture of ankle 8 Complications of procedures not elsewhere classified 8 Scrutture of ankle 8 Complications of procedures not elsewhere classified 8 Scrutture of ankle 8 Complications peculiar to certain specified procedures 9 Complications 9	Other conditions of brain	93	4.8	Symptoms involving digestive system	1
Acute pulmonary heart disease 314 12.0 Fracture of ankle 5 Acute myocardial infarction 185 7.1 Complications peculiar to certain specified procedures 5 Other forms of chronic ischemic heart disease 174 6.6 Fracture of face bones 6 Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula 6 Respiratory system (460 - 519) 2,655 Other (V01-V82, except pregnancy-related) 3,7 Pneumonia organism unspecified 857 32.3 Encounter for other and unspecified procedures, aftercare 1,6 Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found 5 Deviated nasal septum 169 6.4 Convalescence and palliative care	Circulatory system (390 - 459)	2,620		Injury and poisoning (800 - 999)	11,4
Acute myocardial infarction 185 7.1 Complications peculiar to certain specified procedures 5.5 Other forms of chronic ischemic heart disease 174 6.6 Fracture of face bones 2.6 Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula 2.6 Precumonia organism unspecified 857 32.3 Encounter for other and unspecified procedures, aftercare 1,0 Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found 5.0 Poviated nasal septum 169 6.4 Convalescence and palliative care 2.0 Pneumothorax 2.0 Pneumot	Cardiac dysrhythmias	558	21.3	Other complications of procedures not elsewhere classified	9
Other forms of chronic ischemic heart disease 174 6.6 Fracture of face bones 24 Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula 24 Respiratory system (460 - 519) 2,655 Other (V01-V82, except pregnancy-related) 3,7 Pneumonia organism unspecified 857 32.3 Encounter for other and unspecified procedures, aftercare 1,0 Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found Deviated nasal septum 169 6.4 Convalescence and palliative care 2	Acute pulmonary heart disease	314	12.0	Fracture of ankle	5
Other venous embolism and thrombosis 149 5.7 Fracture of tibia and fibula Respiratory system (460 - 519) 2,655 Other (V01-V82, except pregnancy-related) 3,7 Pneumonia organism unspecified 857 32.3 Encounter for other and unspecified procedures, aftercare 1,0 Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found Deviated nasal septum 169 6.4 Convalescence and palliative care	Acute myocardial infarction	185	7.1	Complications peculiar to certain specified procedures	5
Respiratory system (460 - 519)2,655Other (V01-V82, except pregnancy-related)3,7Pneumonia organism unspecified857 32.3Encounter for other and unspecified procedures, aftercare1,6Pneumothorax202 7.6Observation, evaluation for suspected conditions not found5Deviated nasal septum169 6.4Convalescence and palliative care	Other forms of chronic ischemic heart disease	174	6.6	Fracture of face bones	4
Pneumonia organism unspecified 857 32.3 Encounter for other and unspecified procedures, aftercare 1,00 Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found Deviated nasal septum 169 6.4 Convalescence and palliative care 2	Other venous embolism and thrombosis	149	5.7	Fracture of tibia and fibula	4
Pneumothorax 202 7.6 Observation, evaluation for suspected conditions not found 5 Deviated nasal septum 169 6.4 Convalescence and palliative care 2	Respiratory system (460 - 519)	2,655		Other (V01-V82, except pregnancy-related)	3,1
Deviated nasal septum 169 6.4 Convalescence and palliative care	Pneumonia organism unspecified	857	32.3	Encounter for other and unspecified procedures, aftercare	1,0
	Pneumothorax	202	7.6	Observation, evaluation for suspected conditions not found	5
Other diseases of lung 161 6.1 Care involving use of rehabilitation procedures 3	Deviated nasal septum	169	6.4	Convalescence and palliative care	4
	Other diseases of lung	161	6.1	Care involving use of rehabilitation procedures	3
Chronic disease of tonsils and adenoids 157 5.9 Other orthopedic aftercare				Other and the second sections of the second	,

TABLE 3. Most frequent diagnoses during hospitalization by major diagnostic category, females, active component, U.S. Armed Forces, 2011

Diagnostic category (ICD-9-CM codes)	No.	%	Diagnostic category (ICD-9-CM codes)	No.	
nfectious and parasitic diseases (001 - 139)	279		Digestive system (520 - 579)	1,547	
ntestinal infections due to other organisms	48	17.2	Acute appendicitis	324	
Septicemia	47	16.8	Cholelithiasis	224	
Meningitis due to enterovirus	43	15.4	Dentofacial anomalies including malocclusion	213	
II-defined intestinal infections	29	10.4	Other and unspecified noninfectious gastroenteritis and colitis	77	
Viral and chlamydial infection	21	7.5	Diseases of pancreas	71	
Neoplasms (140 - 239)	934		Genitourinary system (580 - 629)	1,560	
Jterine leiomyoma	541	57.9	Disorders of menstruation and other abnormal bleeding	283	
Malignant neoplasm of thyroid gland	51	5.5	Infections of kidney	192	
Malignant neoplasm of female breast	45	4.8	Pain, other symptoms associated with female genital organs	178	
Benign neoplasm of ovary	43	4.6	Noninflammatory disorders of ovary fallopian tube	155	
Malignant neoplasm of ovary,other uterine adnexa	23	2.5	Other disorders of breast	135	
Endocrine, nutrition, immunity (240 - 279)	256		Pregnancy and delivery (630 - 679, relevant V-codes)	19,722	
Disorders of fluid electrolyte and acid-base balance	68	26.6	Trauma to perineum and vulva during delivery	4,984	
Nontoxic nodular goiter	58	22.7	Other indications for care or intervention related to labor	1,624	
Overweight, obesity and other hyperalimentation	35	13.7	Other conditions complicating pregnancy	1,468	
hyrotoxicosis with or without goiter	31	12.1	Abnormality of organs and soft tissues of pelvis	1,400	
Diabetes mellitus	15	5.9	Hypertension complicating pregnancy, childbirth	1,360	
lematologic disorders (280 - 289)	110		Skin and subcutaneous tissue (680 - 709)	204	
ron deficiency anemias	39	35.5	Other cellulitis and abscess	116	
Other and unspecified anemias	19	17.3	Pilonidal cyst	18	
urpura and other hemorrhagic conditions	14	12.7	Other hypertrophic and atrophic conditions of skin	11	
iseases of white blood cells	14	12.7	Erythematous conditions	10	
lereditary hemolytic anemias	10	9.1	Other disorders of skin and subcutaneous tissue	10	
lental disorders (290 - 319)	3,916		Musculoskeletal system/connective tissue (710 - 739)	1,028	
djustment reaction	1,359	34.7	Intervertebral disc disorders	295	
pisodic mood disorders	1,158	29.6	Other derangement of joint	87	
epressive disorder not elsewhere classified	338	8.6	Other and unspecified disorders of back	81	
alcohol dependence syndrome	227	5.8	Other disorders of bone and cartilage	70	
nxiety, dissociative and somatoform disorders	226	5.8	Spondylosis and allied disorders	59	
lervous system (320 - 389)	505		Signs, symptoms, ill-defined conditions (780 - 799)	1,001	
1igraine	97	19.2	General symptoms	286	
Pain, not elsewhere classified	84	16.6	Other symptoms involving abdomen and pelvis	263	
pilepsy	60	11.9	Symptoms involving respiratory system	239	
Other conditions of brain	35	6.9	Symptoms involving head and neck	60	
fultiple sclerosis	22	4.4	Symptoms involving digestive system	48	
irculatory system (390 - 459)	407		Injury and poisoning (800 - 999)	1,331	
cute pulmonary heart disease	80	19.7	Other complications of procedures not elsewhere classified	198	
Cardiac dysrhythmias	76	18.7	Complications peculiar to certain specified procedures	104	
Other venous embolism and thrombosis	31	7.6	Poisoning by analgesics antipyretics and antirheumatics	93	
lemorrhoids	25	6.1	Poisoning by psychotropic agents	86	
other and ill-defined cerebrovascular disease	18	4.4	Fracture of ankle	75	
espiratory system (460 - 519)	435		Other (V01-V82, except pregnancy-related)	795	
neumonia organism unspecified	86	19.8	Observation and evaluation for suspected conditions not found	267	
sthma	49	11.3	Encounter for other and unspecified procedures and aftercare	185	
Chronic disease of tonsils and adenoids	46	10.6	Convalescence and palliative care	101	
Acute tonsillitis	26	6.0	Care involving use of rehabilitation procedures	54	
Other diseases of lung	24	5.5	Other orthopedic aftercare	51	

TABLE 4. Injury and poisoning hospitalizations^a by causal agent^b, active component, U.S. Armed Forces, 2011

2011							
Cause	No.	%					
Unintentional	7,885	84.9					
Fall and miscellaneous	2,011	21.7					
Complications of medical/ surgical care	1,626	17.5					
Guns, explosives (includes accidents during war)	1,350	14.5					
Land transport	959	10.3					
Poisons and fire	649	7.0					
Athletics	436	4.7					
Environmental	320	3.4					
Machinery, tools	262	2.8					
Air transport	245	2.6					
Water transport	27	0.3					
Intentional	1,367	14.7					
Battle casualty	851	9.2					
Self-inflicted	416	4.5					
Non-battle, inflicted by other	100	1.1					
Missing/invalid code 34 0.4							
^a Hospitalizations in U.S. military medical facilities only ^b Causal agents were determined by codes IAW STANAG 2050							

disorders; signs, symptoms, and ill-defined conditions) to five days (i.e., mental disorders). For most diagnostic categories, fewer than five percent of hospitalizations exceeded 9 days, but approximately five percent of mental disorder-related hospitalizations exceeded 31 days and five percent of "other" or V-coded hospitalizations (primarily orthopedic aftercare and rehabilitation following a previous illness or injury) exceeded 35 days (Figure 4).

Hospitalizations by service:

Among members of the Navy, Air Force, and Coast Guard, pregnancy and delivery-related conditions accounted for more hospitalizations than any other category of illnesses or injuries; however, among members of the Army and Marine Corps, mental disorders were the leading cause of hospitalizations. The crude hospitalization rate for mental disorders in the Army was approximately 70% higher than in the Marine Corps and more than twice as high than in the other Services (Table 5).

Injuries and poisonings were the second leading cause of hospitalizations in the Marine Corps, the third leading cause in the Army and Navy, and the fifth leading cause in the Air Force and Coast Guard. The hospitalization rate for injuries and poisonings was slightly higher among soldiers (12.6 per 1,000 p-yrs) than Marines (12.2 per 1,000 p-yrs) and more than twice as high among

soldiers and Marines than among members of the other Services (**Table 5**).

EDITORIAL COMMENT

In 2011, for every 15 active component service members, there was one hospitalization for any cause; for every

FIGURE 3. Length of hospital stay, by year, active component, U.S. Armed Forces, 2002-2011

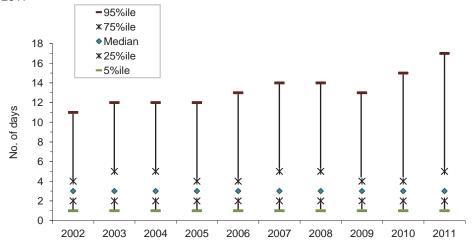


FIGURE 4. Length of hospital stay by major diagnostic category, active component, U.S. Armed Forces, 2011

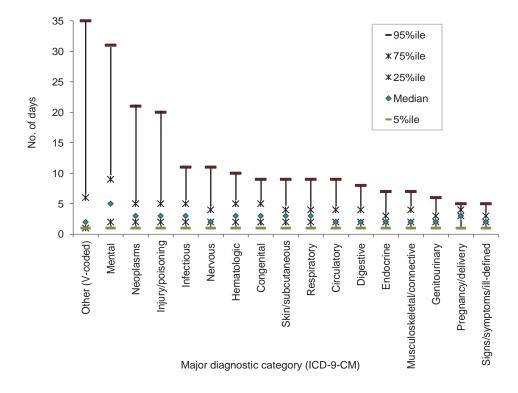


TABLE 5. Hospitalizations by service and ICD-9-CM diagnostic category, active component, U.S. Armed Forces, 2011

	Army		Navy		Air Force		Marine Corps		Coast Guard	
Major diagnostic category (ICD-9-CM)	No.	Rate ^a	No.	Ratea	No.	Rate ^a	No.	Rate ^a	No.	Ratea
Mental disorders (290 - 319)	13,003	23.1	3,066	9.5	2,797	8.5	2,606	13.0	263	6.3
Pregnancy and delivery (630-679, relevant V-codes) ^b	7,452	13.2(97.8)	4,786	14.9(91.6)	5,358	16.3(85.4)	1,749	8.7(128.0)	377	9.0(65.5)
Injury and poisoning (800 - 999)	7,075	12.6	1,626	5.1	1,467	4.5	2,454	12.2	119	2.8
Digestive system (520 - 579)	4,264	7.6	1,622	5.1	1,854	5.6	1,115	5.5	194	4.6
Musculoskeletal system/connective tissue (710 - 739)	3,951	7.0	1,122	3.5	1,778	5.4	887	4.4	147	3.5
Signs, symptoms, ill-defined conditions (780 - 799)	2,625	4.7	870	2.7	973	3.0	409	2.0	39	0.9
Other (V01-V82, except pregnancy-related)	2,156	3.8	689	2.1	497	1.5	587	2.9	65	1.6
Circulatory system (390 - 459)	1,590	2.8	515	1.6	602	1.8	257	1.3	63	1.5
Respiratory system (460 - 519)	1,568	2.8	414	1.3	515	1.6	552	2.7	41	1.0
Genitourinary system (580 - 629)	1,501	2.7	537	1.7	635	1.9	279	1.4	50	1.2
Nervous system (320 - 389)	1,296	2.3	399	1.2	445	1.4	256	1.3	33	8.0
Neoplasms (140 - 239)	1,026	1.8	483	1.5	516	1.6	166	0.8	47	1.1
Skin and subcutaneous tissue (680 - 709)	959	1.7	363	1.1	332	1.0	497	2.5	31	0.7
Infectious and parasitic diseases (001 - 139)	708	1.3	268	0.8	267	0.8	265	1.3	38	0.9
Endocrine, nutrition, immunity (240 - 279)	573	1.0	148	0.5	183	0.6	93	0.5	8	0.2
Congenital anomalies (740 - 759)	207	0.4	93	0.3	111	0.3	55	0.3	3	0.1
Hematologic disorders (280 - 289)	174	0.3	64	0.2	74	0.2	66	0.3	4	0.1
Total	50,128	88.9	17,065	53.1	18,404	51.9	12,293	61.1	1,522	36.4

^aRate expressed as hospitalizations per 1,000 p-yrs of service

18 members, there was one hospitalization for a condition not related to pregnancy and delivery. Hospitalization rates for all causes among active component members increased in 2011 compared to the past decade. As in the past, in 2011, mental disorders, pregnancy and delivery-related conditions, and injuries and poisonings accounted for more than one-half of all hospitalizations of active component members. Since 2007, hospitalizations for mental disorders increased by more than 50 percent; during the same period, hospitalizations for injuries and poisonings slightly decreased.

The recent sharp increase in hospitalizations for mental disorders likely reflects the effects of many factors including repeated deployments and prolonged exposures to combat stresses; increased awareness and concern regarding threats to mental health among unit commanders and other front line supervisors, service members and their families, and medical care providers; increased screening for and detection of mental disorders after combat-related service and other traumatizing experiences; and decreasing stigmas and

removal of barriers to seeking and receiving mental disorder diagnoses and care.

There are limitations to this summary that should be considered when interpreting the results. For example, the scope of this report is limited to members of the active components of the Services. Many reserve component members were hospitalized for illnesses and injuries while serving on active duty in 2011; these hospitalizations are not accounted for in this report. Also, many injury and poisoning-related hospitalizations occur in non-military hospitals; in most cases, the "external causes" of such injuries and poisonings are not reported on standardized records. If there are significant differences in the causes of injuries and poisonings that resulted in hospitalizations in U.S. military and non-military hospitals, the summary of external causes of injuries requiring hospital treatment reported here (Table 4) could be misleading. Also, this summary is based on primary (first-listed) discharge diagnoses only; in many hospitalized cases, there are multiple underlying conditions. For example, military members who are wounded in combat or injured in motor vehicle accidents may have multiple injuries and complex medical and psychological complications. In such cases, only the first-listed discharge diagnosis would be accounted for in this report. Even with these and other limitations, this report provides useful and informative insights regarding the natures, rates, and distributions of the most serious illnesses and injuries that affect active component military members.

In 2011, adjustment reactions (including post-traumatic stress disorder), mood disorders, and intervertebral disc disorders were among the leading causes of hospitalizations of both male and female service members. In recent years, attention at the highest levels of the U.S. military and significant resources have been focused on detecting, diagnosing, and treating mental disorders - especially those related to long and repeated deployments and combat stresses. In addition, the findings of this and other surveillance reports suggest that military medical research, force health protection, and clinical practice efforts should focus on improving the prevention, treatment, and rehabilitation of back disorders among U.S. military members.

^bRate of pregnancy and delivery-related hospitalizations among females only (in parentheses)